

Wellco T&C Co., Ltd.

承認書

Specification For Approval

客戶名稱: (Customer)	
產品名稱: (Product Description)	micro USB 5Pin Female connector
客戶料號: (Customer P/N #)	
內部料號: (Wellco P/N #)	AUSB-1008-05S2
送樣日期: (Sending Date)	
承認書編號: (Approval No.)	

客戶承認 (Customer Approval Signature)			內部承認 (Wellco Internal Approval)		
核准 (Approval)	工程 (Engineer)	品管 (QC)	核准 (Approval)	工程 (Engineer)	制作 (Drawing)
			Chin Nov.07, 2012	Billy Nov.07 2012	Emily Nov.07, 2012
客戶承認結果:	☐ 承認		☐ 不承認		☐ 重新送樣

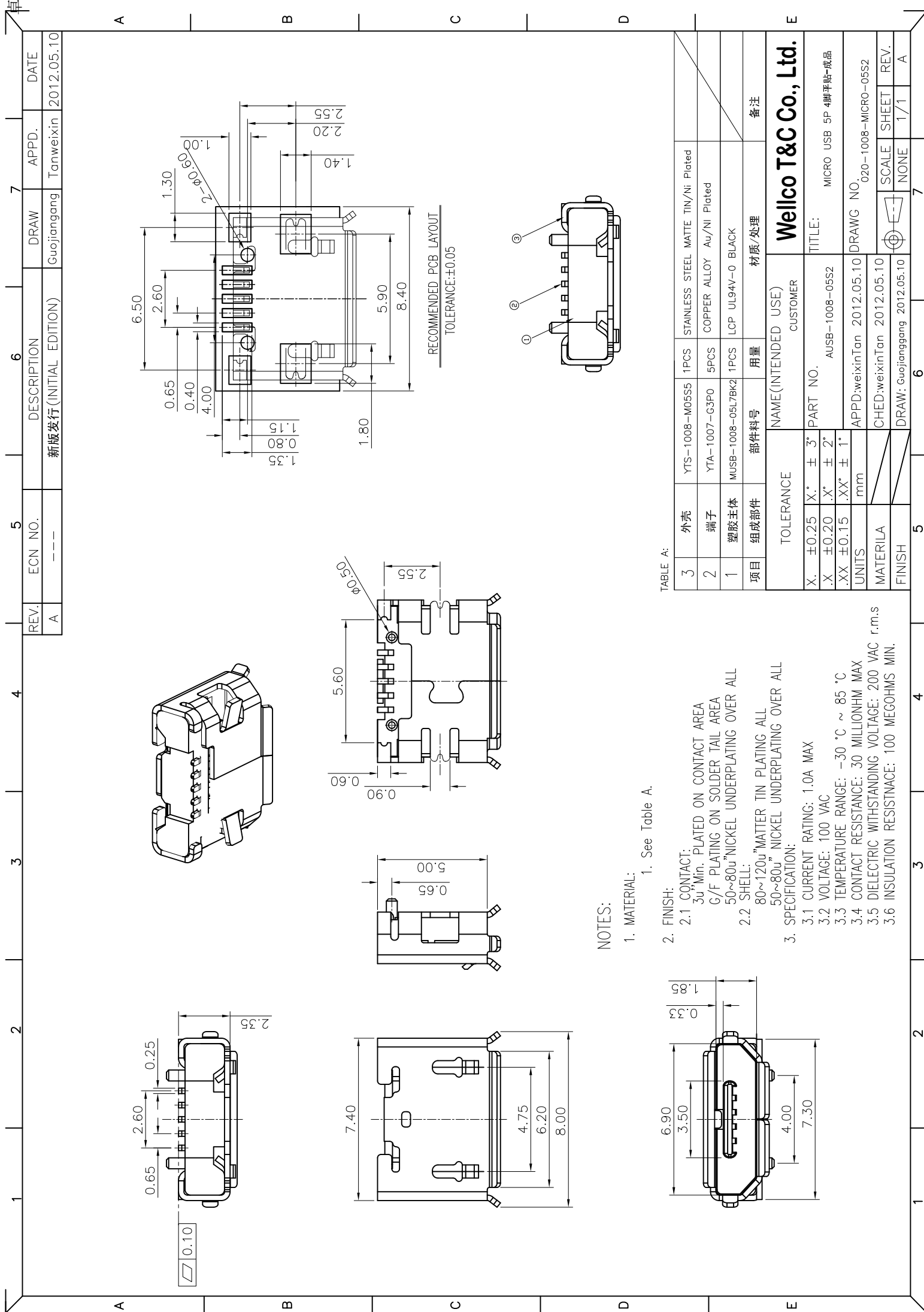


TABLE A:

3	外壳	YTS-1008-M05S5	1PCS	STAINLESS STEEL MATTE	TIN/Ni Plated
2	端子	YTA-1007-G3P0	5PCS	COPPER ALLOY	Au/Ni Plated
1	塑胶主体	MUSB-1008-05L7BK2	1PCS	LCP UL94V-0	BLACK
项目	组成部件	部件料号	用量	材质/处理	备注
TOLERANCE		NAME(INTENDED USE)		CUSTOMER	
X. ± 0.25	X.° $\pm 3^\circ$	PART NO.		TITLE:	
.X ± 0.20	.X° $\pm 2^\circ$	AUSB-1008-05S2		MICRO USB 5P 4脚平贴-成品	
.XX ± 0.15	.XX° $\pm 1^\circ$	mm		DRAWG NO. 020-1008-MICRO-05S2	
UNITS		APPD:weixinTan 2012.05.10		CHED:weixinTan 2012.05.10	
MATERILA		DRAW:weixinTan 2012.05.10		SCALE SHEET REV. 1/1 A	
FINISH		DRAW: Guojiangang 2012.05.10			

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产品检验报告 Test Report

产品检验状态：☐ 进料 ☐ 出货 ☒ Sample

客户/供应商		微科	数量	5PCS	抽检数量		检验日期	2012-7-16		
品 名		MICRO USB 5P DIP+SMT TYPE			不良数量		不良率	0%		
产品料号		AUSB-1009-05S		管制单号	/		订购单号	/		
抽样水准		MIL-STD-105E抽样计划 ☐ 加严检验 ☒ 正常检验 ☐ 减量检验 ☐ 全检								
判定： ☒ 合格 ☐ 挑选 ☐ 退货 ☐ 特采										
检查仪器代号：A-卡尺 B-千分尺 C-投影仪 D-二次元 E-目视 F-（其它）										
检验项目		检查仪器	检验标准	品 质 状 况					判 定	
									OK	NG
尺寸	1	D	2.60+/-0.05	2.60	2.61	2.62	2.60	2.60	OK	
	2	D	0.65+/-0.05	0.64	0.65	0.65	0.64	0.65	OK	
	3	D	7.40+/-0.15	7.42	7.40	7.41	7.41	7.40	OK	
	4	D	2.42+/-0.15	2.40	2.43	2.42	2.43	2.42	OK	
	5	D	5.00+/-0.15	5.05	5.03	5.05	5.02	5.01	OK	
	6	D	2.15+/-0.15	2.15	2.16	2.15	2.15	2.15	OK	
	7	D	2.20+/-0.15	2.22	2.23	2.21	2.25	2.25	OK	
	8	D	6.90+0.05/-0.02	0.91	6.90	6.93	6.90	6.92	OK	
	9	D	6.40+/-0.15						OK	
	10	D	1.88+0.05/-0.02						OK	
外观	D	无外观不良	外观OK					OK		
性能	F	依图纸要求	符合要求					OK		
其它	F	适配良好	适配ok					OK		
备注										

核 准：邹少东

审 核：郭建刚

检验员：向蓉

表单编号:QR-Q-001 A

Material Safety Data Sheet

物質安全資料表

一, 物品與廠商資料/Product and Company Identification

物質名稱: Product Name	LCP S475 BZ
物品編號 Product Code	QF120413
製造商或供應商名稱, 位址及電話 Address&Tel. of Manufacturer or Agent	深圳市宝安区松岗鼎成塑胶厂 深圳松岗溪头工业区
緊急聯絡電話/傳真電話: Emergency Phone Number/Fax	T:0755-33667786 F:0755-33667785

二, 成份辨識資料/Composition, Information on Ingredients

成份名稱/Component Chemical Name&Common Names: 聚酯樹脂 玻璃纖維
化學文摘社登記號碼/CAS No: 0088-52-0 599717-3
濃度(成分百分比)/Concentration (Percentage): 聚酯樹脂 70% 玻璃纖維/無機物 30%

三, 危害辨識資料/Hazard Identification

最重要危害效應	健康危害效應/Health Hazards and Reactions: 吸入或皮膚接觸可能會引起過敏	
Most Important	環境影響/Environmental Impact: NA	
Health Hazards	物理性及化學性危險/Physical and Chemical Hazards: NA	
and Reactions	特殊危害/Specific Hazards: NA	
主要症狀/Cardinal Symptoms: NA		
物質危害分類/Hazard Classification: NA		

四, 急救措施/

不同暴露途徑之急救方法/First Aid Measures for Different Kinds of Exposures:
吸入/Inhalation: 移至通風良好處
皮膚接觸/Skin Contact: 以大量水清洗及肥皂清洗即可
眼睛接觸/Eye Contact: 立即以清水沖洗 15 分鐘, 緊急送醫處理
食入/Ingestion: 以清水沖洗嘴巴後, 緊急送醫處理
最重要症狀及危害效應/Most Important Symptoms and Hazard Reactions: NA
對緊急救人員防護/Protection to First-Aid Attendants: NA
對醫師之提示/Suggestions to Doctors: NA

五, 滅火措施/Fire Fighting Measures

通用滅火劑/Suitable Extinguishing Media: CO2
滅火時可能遭遇之特殊危害/Special Hazards in Fire: NA
特殊滅火程式/Special Fire-Fighting Procedures: NA
消防人員之特殊防護設備/Required Special Protective Equipment for Fire-Fighters: 一般消防設備

六, 洩漏處理方法/Accidental Release Measures

個人應注意事項/Personal Precautions: 配戴面罩或活性碳口罩防止吸入塵埃
環境注意事項/Environmental Precautions: 勿使物品流入地下水道系統

清理方法/Methods for Cleaning:一般環境下區別管理

七，安全與儲存方法/Handling and Storage

處置/Handing: 避免陽光直射的場所

儲存/Storage: 通風 常溫 常濕之室內場所

八，暴露預防措施/Exposure Controls, Personal Protection

工程控制/Control Parameters:

控制參數

- 八小時日時量平均容許濃度 (TWA) 短時間時量平均容許濃度 (STEL) 最高容許濃度 (CEILING) NA
- 生物指標/BEIs: NA

個人防護措施/Personal Protection Equipment:

- 吸入防護/Respiration: 面罩或活性碳口罩
- 手部防護/Hand: 手套
- 眼睛防護/Eye: 安全眼鏡
- 皮膚及身體防護/Skin&Body: 長袖工作服

衛生措施/Hygiene Measures: 操作以後大量清水及肥皂洗滌身體接觸部分

九，物理性及化學性質/Physical and Chemical Properties

物質狀態/State of Substance: 固體	形狀/Appearance: 粒狀
顏色/Color: 黑色	氣味/Odor: 輕微石碳酸味
PH 值/Ph Value: 6—7	沸點/沸點範圍/Boiling Point: NA
分解溫度/Decomposing Temperature: NA	閃火點/Flashpoint NA°F NA°C
	測試方法: 開杯 閉杯
	Test Methods: Open Slot Closed Slot
自燃溫度/Self-Igniting Temperature: NA	爆炸界限/Explosion Limits: NA
蒸汽壓/Vapor Pressure: NA	蒸汽密度/Vapor Density: NA
密度/Density: 1.71	溶解度/Dissolution: 不溶于水

十，安全性及反應性/Stability and Reactivity

安定性/Stability 依正常使用程式安定性佳

特殊情況下可能之危害反應/Possible Hazard Reaction Under Special Conditions 吸入或皮膚接觸
可能會引起過敏

應避免之狀況/Conditions to Avoid: NA

應避免之物質/Materials to Avoid: NA

危害分解物/Hazardous Decomposition Products: NA

十一，毒性資料/Toxicological Information

急毒性/Acute Toxicity: NA

局部效應/Local Reactions: NA

致敏感性/Sensitivity: NA

慢毒性或長期毒性/Chronic or Long Term Toxicity; NA

特殊效應/Special Reactions: NA

十二，生態資料/Ecological information

可能之環境影響/環境流布/Possible Environmental Impact/Environmental Run-offs: NA

十三，廢棄處置方法/Disposal considerations

廢棄處理方法/Disposal Methods:

十四，遠送資料/Transport informations

國際運送規定/International Transportaion Regulations: NA
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聯合國編號/UN Reference No: NA

國內運送規定/Domestic Transportation Regulations: NA
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特殊運送方法及注意事項/Special Transportation Methods and Precautions: NA
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十五，法規資料/Regulatory information

適用法規/Applicable Regulation: NA

十六，其他資料/Other information

參考文獻/Ref Document	NA
製表單位/Department	名稱/Dept Name: 深圳市宝安区松岗鼎成塑胶厂
	位址/電話 Address/Tel: 深圳市松岗溪头工业区
製錶人/Made By	職稱/Title: 姓名/(簽章) Name : 李好东
製錶日期/Date Prepared	2012. 04. 13

物质安全材料表（MSDS）

一、物品与厂商资料：

物品名称：不锈钢卷材
物品编号：Cr1000
供应商名称：东莞市厚庆电子科技有限公司
供应商地址：东莞市塘厦镇平山188工业大道92号
联系电话：0769-86957800/600

二、成分辨识资料：

纯物质：镍

中英文名称：不锈钢
同义名称：无
化学文摘社登记号码（CAS No）：无
有害物质成分（成分千分比）：无

混合物

化学性质：		
有害物质成分之中英文名称	浓度或浓度范围（成分千分比）	有害物质分类及图式
金属成分		
Cd Hg Pb Cr6+	82. 053-83. 722	
	余量	

三、危害辨识资料：

最重要危害	健康危害效应：不可食用
	环境影响：环保产品，低铅低镉（Pb<100ppm, Hg<5ppm, Cd<5ppm, Cr6+<5ppm）
	物理性及化学性危害：无
	特殊危害：无
主要症状：无	
物品危害分类：无	

四、急救措施：

不同暴露途径之急救方法：无
吸入：立即送医院
皮肤接触：若严重送医院
眼睛接触：用流动水冲洗并立即送医院
食入：立即送医院
最重要症状及危害效应：无
对急救人员之防护：无
对医生之提示：无

五、灭火措施：

适用灭火剂：不可燃物质
灭火时可能遭遇之特殊危害：无
特使灭火程序：无
消防人员之特殊防护设备：无

六、浅漏处理方法：

个人应注意事项：无
环境注意事项：回收

七、安全处置与储存方法:

处置: 避免与酸性或碱性化学物质接触, 不可在高于或超出适宜温度与湿度 (最适宜环境: 常温25° C, 湿度在50° C以下) 环境中长期放置

储存: 避免存放于酸性、碱性或高温、高压环境中

八、暴露预防措施:

工程控制: 无

控制参数: 无

个人防护设备:

卫生措施: 无

九、物理及化学性质:

物理状态: 固体	形状: 条形
颜色: 银白色	气味: 无
Ph值: 无	沸点/沸点范围: 无
分解湿度: 无	测试方法: 无
自然温度: 无	爆炸界限: 无
蒸气压: 无	蒸气密度: 无
密度: 7.8	溶解度: 无

十、安全性及反应性:

安定性: 常温常温25。C, 湿度在50。C以下环境中储存时, 安定性佳。

特殊状况下可能之危害反应: 无

应避免之状况: 高温、高压及酸碱性环境

应避免之物质: 强酸、强碱

十一、毒性资料:

急毒性: 无

局部效应: 无

致敏感性: 无

慢毒性或长期毒性: 无

特殊效应: 无

十二、生态资料:

可能之环境影响/环境流径: 无

十三、废气处置方法:

废物处置方法: 回收

十四、运送资料:

国际运送规定: 无

联合国编号: 无

国内运送规定: 无

特殊运送方法及注意事项: 运输过程中不能友碰撞及挤压。须保证温度与湿度适中, 不可导致不锈钢卷材变形或氧化

十五、法规资料:

参考文件	有效期: 五年	
制表单位	名称: 东莞市厚庆电子科技有限公司	
	地址/电话: 东莞市塘厦镇平山188工业大道92号	
制表人	职称: 品保	姓名 (签章): 刘云平
制表日期	2011-2-17	

物質安全資料表

一、物品與廠商資料

物品名稱：黃銅板材	物品編號：
製造商或供應商名稱：	
地址：	
	緊急聯絡人：

二、成分辨識資料

中英文名稱：黃銅
同義名稱：C2680
化學文摘社登記號碼(CAS No.)：
化學式：Cu Sn P Fe

三、危害辨識資料

最重要危害效應	健康危害效應：本产品在固定时不具健康危害及危險
	環境影響：本产品在固定时不具健康危害及危險
	物理性及化學性危害：無
	暴露之徵兆及症狀：無
主要症狀：無	
物品危害分類：無	

四、急救措施

不同暴露途徑之急救方法：吞入进行催吐。将患者及时送医院处理。
最重要危害效应：無
对急救人员防护：無

五、滅火措施

特殊滅火程序：無
適用滅火劑：不燃固体
滅火方法：周圍發生火災時，應繼續切斷燃燒源，在可能的情況下，快速將容器轉移到安全的場所，滅火作業要確保安全的处理。
滅火時可能遭遇之特殊危害：無

六、洩漏處理方法

洩漏之緊急應變：無
清理方法：用水冲洗乾淨即可，在送到特定的廢水廠處理

七、安全處置與儲存方法

操作：無
儲存：1：应避免阳光照射，并保持作业处空气流通。2：常温，温度 40-80% 3：保存期 6 个月

八、暴露預防措施

個人防護設備：無 • 工程防護：無 • 呼吸防護：無 • 手部防護：手套和手指套 • 其他：耐化學膠鞋、防護衣
通風設備：作業現場要進行充分換氣，保持通風良好。
個人衛生：1.工作場所嚴禁抽菸或飲食 2.工程後應將手、臉、皮膚等徹底清洗乾淨

九、物理及化學性質

物質狀態：固體	形狀：塊狀
顏色：亮黃色	氣味：無
pH 值：無	沸點/沸點範圍：無
分解溫度：無	揮發速率：無資料
自燃溫度：無	
蒸氣壓：無	
溶水度：無	

十、安定性及反應性

安定性：正常状态下安定
應避免之狀況：避免放置太濕的地方
應避免之物質：酸性物質
危害分解物：不分解

十一、毒性資料

容許濃度				
局部效应	特殊效应	急毒性	慢毒性或长期毒	致命毒性
無	無	正常情况下无毒	無	無

十二、生態資料

可能之環境影響/環境流佈：

十三、廢棄處置方法

廢棄處置方法：依据当地法规合法处理。

十四、運送資料

國際運送規定：無特殊列管制法規、依循國際航運法規
聯合國編號(UN NO.)：無
國內運送規定：依一般正常法規行駛

十五、法規資料

適用法規：1.勞工安全衛生法 2.避免容器擠壓、碰撞以免容器破裂以致不便

十六、其他資料

製表單位	名稱：	
	地址：	
製表日期	2012/04/20	姓名(簽章)：譚維心

LCP S475 物性表

测定项目		测定方法	单位	
特征				(MD+GF) 30 % 强化 超高温刚性，低翘曲， 高流动
比重		ISO 1183	g/cm³	1.65
吸水率		ISO 62	%	
成型收缩率	MD	自社法	%	0.1
	TD		%	0.39
拉伸强度		ISO 527-1, 2	MPa	155
拉伸伸长率			%	2.3
弯曲强度		ISO 178	MPa	180
弯曲弹性率		ISO 178	GPa	2.4
Izod 冲击强度	凹槽(有)	ISO 179-1	J/m	4
洛氏强度		ISO 2039-2	R,M Scale	
负荷弯曲温度		ISO 75-1, 2	℃	305
线膨胀系数		自社法	×10 ⁻⁵ /℃	
难燃性		UL94		V-0/0.4
介电强度		IEC-60243-1	KV/mm	27
透电率		IEC-60205	—	
耐电弧性		ASTM D495	s	
耐电弧轨迹性		UL 746A	UL Index	
用途				

东莞市厚庆电子科技有限公司
材质证明书

MATERIAL CERTIFICATE

制造编号		-				生产编号		z1201205000		开立日期 Issue Date		证明书编号 Certificate No		201205000					
钢种名称		SUS 304 1/2H										订单编号 Order No		依据规范 By Standard		JIS			
项目	钢卷编号	厚度(mm)	宽度(mm)	长度	数量(卷)	重量(KG)	成品表面												
Item	Coil No	Thickness	Width	Length	Quantity	Weight (KG)													
1	304	0.2	26	COIL		200													
2	304	0.25	27	COIL		200													
3	304	0.25	25	COIL		50													
化学成份Chemical Composition (%)							标准	硬度	降伏强度	引张强度	伸长率 (%)	弯曲试验							
							C	Si	Mn	P	S	Cr	Ni	Mo	N	Tensile stress (N/mm²)	Yield stress (N/mm²)	Elongation (%)	Bend Test
标准		0.080	1.000	2.000	0.045	0.030	18.000	8.000											
Spec		max	max	max	max	max	max	max	max	max	max	max	max	max	max	932	667	13	
1		0.070	0.630	1.230	0.022	0.008	18.210	8.070											
2		0.070	0.630	1.230	0.022	0.008	18.210	8.070											
3		0.070	0.630	1.230	0.022	0.008	18.210	8.070											
以上列出的典型数据，仅供参考，并不代表技术数据的最大值或最小值，也不用于最终设计，												如有异常，请三天内回复				技术部经理 Manager			
任一具体材料数据可能与此表中所列出的数据不同												Only discrepancy pls							
Data shown are typical,For reference only,and should not be construed as maximum or minimum												contact us within 3days							
values for specification or for final design data . On any particular piece of material may vary from those shown herein																			

鉅鼎銅材廠檢驗報告單

公司名稱 Customer	鉅鼎金屬材料有限公司			重量 Weight(kg)	897	出貨日期 Date	2012.5.4
品名 Article	標準 Standard No	尺寸 Dimension	銅卷編號 Coil No		252264		
C2680	JISH3100	0.15*305					EH
化學成分Chemical Compositions(%)							
元素 Element	Cu	Zn	Pb	Fe	P	Cd	雜質
規範 Spec	64-68	餘量	G	<0.05	0.03-0.35	<0.0005	合格
實測 Actual	64.81	餘量	0.0068	0.021	0.157	<0.0005	合格
機械性質子Mechanical Properties							
項目 Item	結晶粒度 Grain Size Mm	硬度 Hardness Hv	抗拉強度 TensionStrength Mpa	伸長度 Elongation %	導電率 Electrical Conduc %IACS	彎曲試驗 Bending Test 180	表面粗度 Surface Roughness Ra(u m)
規範MAX Spec	1	160-180	1	1	1	1	1
實測 Actual	1	171	520	25	1	1	1

品質部

聯系電話:0755-28111847

傳真: 0755-28110077



Test Report

Report No. RLSZE001167840001

Page 1 of 4

Applicant SHENZHEN BAOAN SONGGANG,DINGCHEN PLASTIC FACTORY
Address XITOU INDUSTRIAL,SONGGANG STREET,BAOAN,SHENGZHENG.

Report on the submitted sample(s) said to be

Sample Name LCP
Sample Description Black plastic grains
Part No. S475,S471,E130I
Material 塑胶粒
Sample Received Date Feb. 15, 2012
Testing Period Feb. 15, 2012 to Feb. 18, 2012

Test Requested As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample.

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
Polybrominated Biphenyls(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

Test Result(s) Please refer to the following page(s).

Tested by

Rick

Inspected by

Vargas

Approved by

Daryl

Date

Feb. 18, 2012

Technical Manager

No. 11368615



Test Report

Report No. RLSZE001167840001

Page 2 of 4

Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium(Cr(VI))	N.D.

Tested Item(s)	Content
Polybrominated Biphenyls(PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.

Tested Item(s)	Content
Polybrominated Diphenyl Ethers(PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

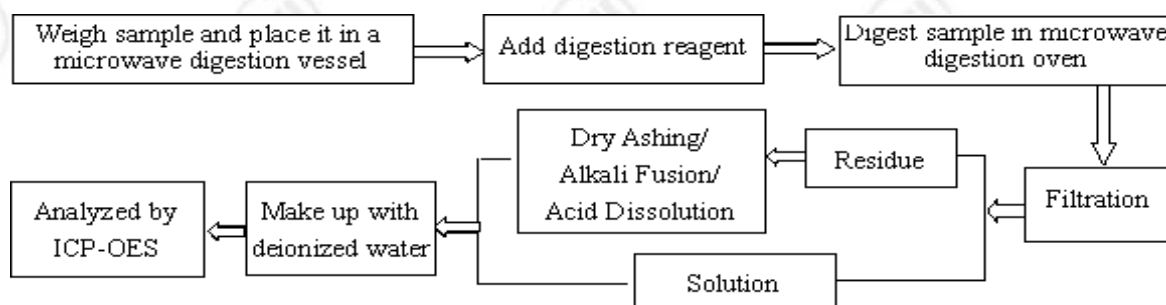
Test Report

Report No. RLSZE001167840001

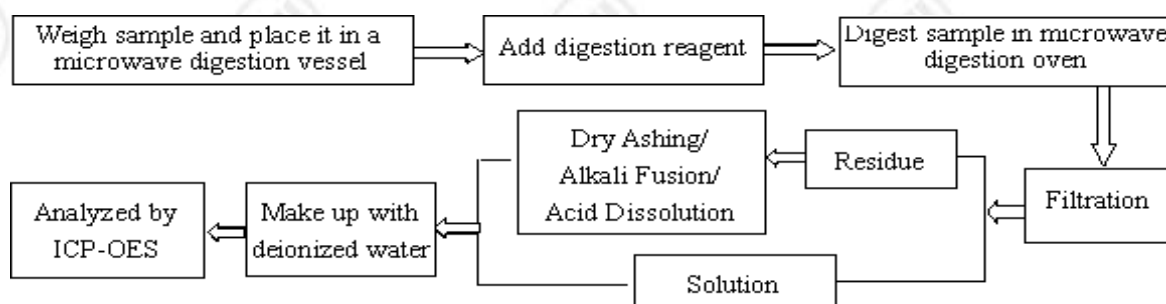
Page 3 of 4

Test Process

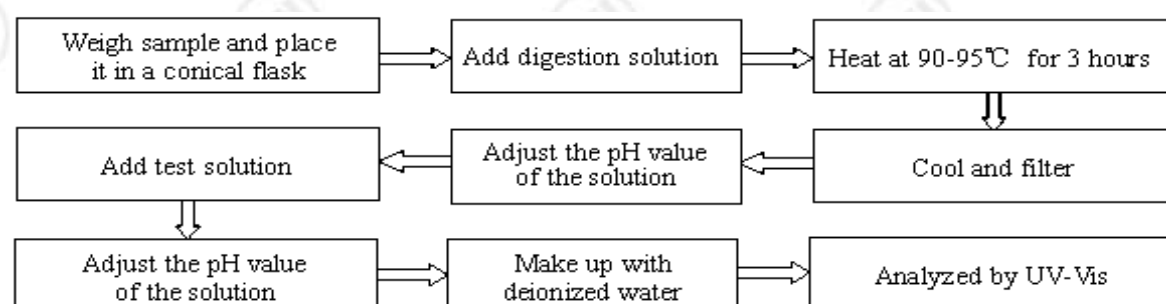
1. Lead(Pb), Cadmium(Cd)



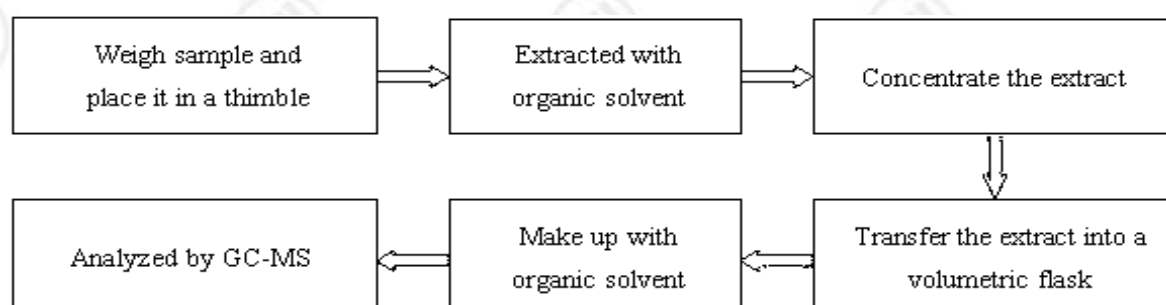
2. Mercury(Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)



Test Report

Report No. RLSZE001167840001

Page 4 of 4

Photo(s) of the sample(s)



*** End of report ***

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Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

ZHE JIANG ZHONG HUAN COPPER CO., LTD
ANCHANG TOWN SHAOXING CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : C2680(H65) HIGH PRECISION BRASS STRIPS

SGS Job No. : SP12-006874 - SH
Date of Sample Received : 15 Mar 2012
Testing Period : 15 Mar 2012 - 19 Mar 2012
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Fan Jingjie, JJ
Approved Signatory

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Test Results :

Test Part Description :

Quantity **Order Number** **Material**
1 SHA12-032820.002 Golden metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	17
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	-	-	◇	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	002
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

- (1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
- (2) ◇ = a. Positive means the presence of CrVI on the tested areas;
b. Negative means the absence of CrVI on the tested areas

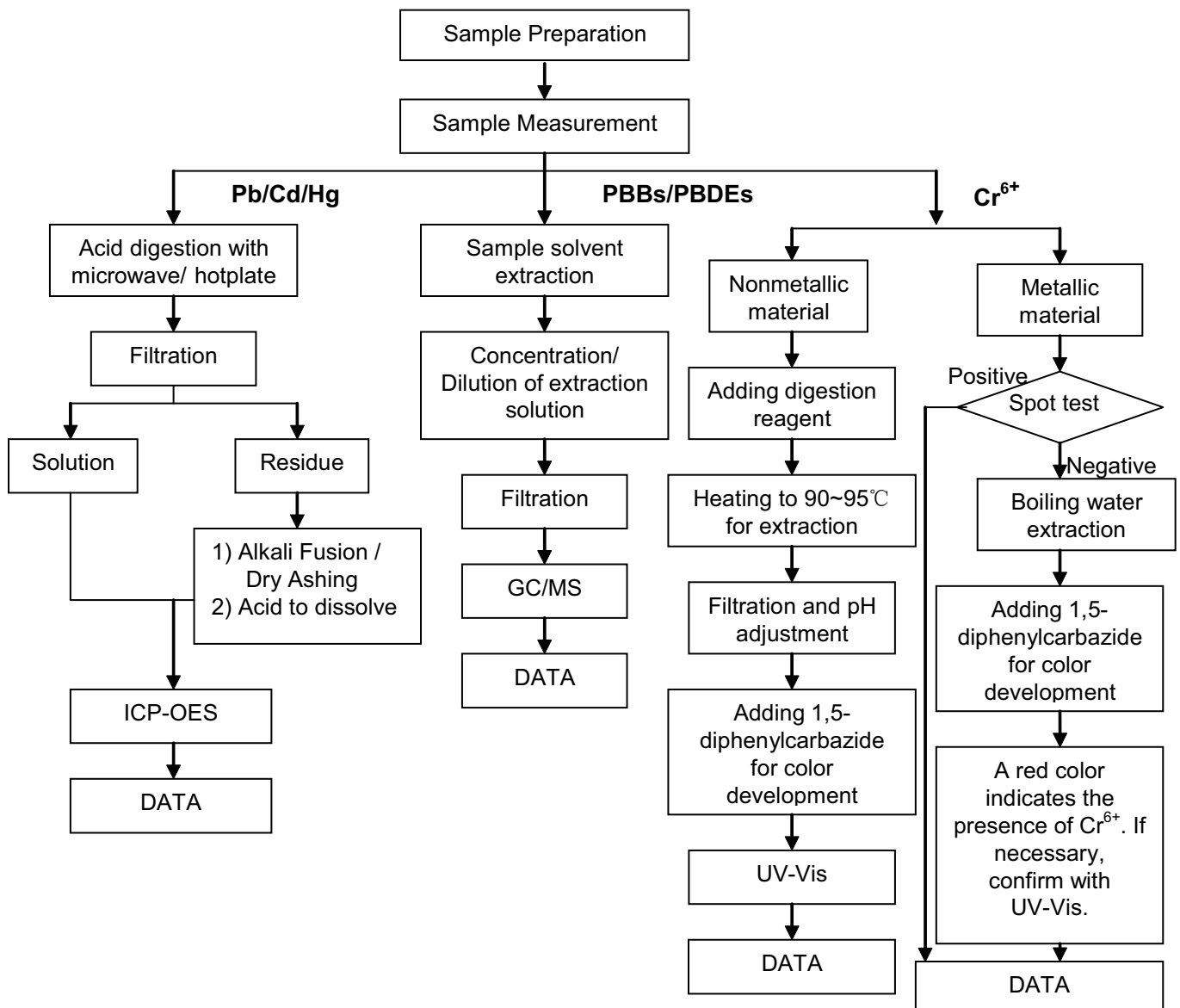
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Jan Shi/Yoyo Wang/Allen Xiao/Gary Xu
- 2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Elim Lin
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded)



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Sample photo:



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DONGGUAN HOQ ELECTRONIC SCIENCE AND TECHNOLOGY CO.,LTD.

NO.92,188 INDUSTRIAL ROAD,TANXIA TOWN,DONGGUAN CITY,GUANGDONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SUS304

SGS Job No. : GC120421006 - GZ
Internal Reference No. : 3.2
Date of Sample Received : 18 Apr 2012
Testing Period : 18 Apr 2012 - 23 Apr 2012
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Annie Liang
Approved Signatory

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Test Results :

Test Part Description :

Order No.

1

Order Ref.

CAN12-045298.002

Description

Silvery metal sheet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

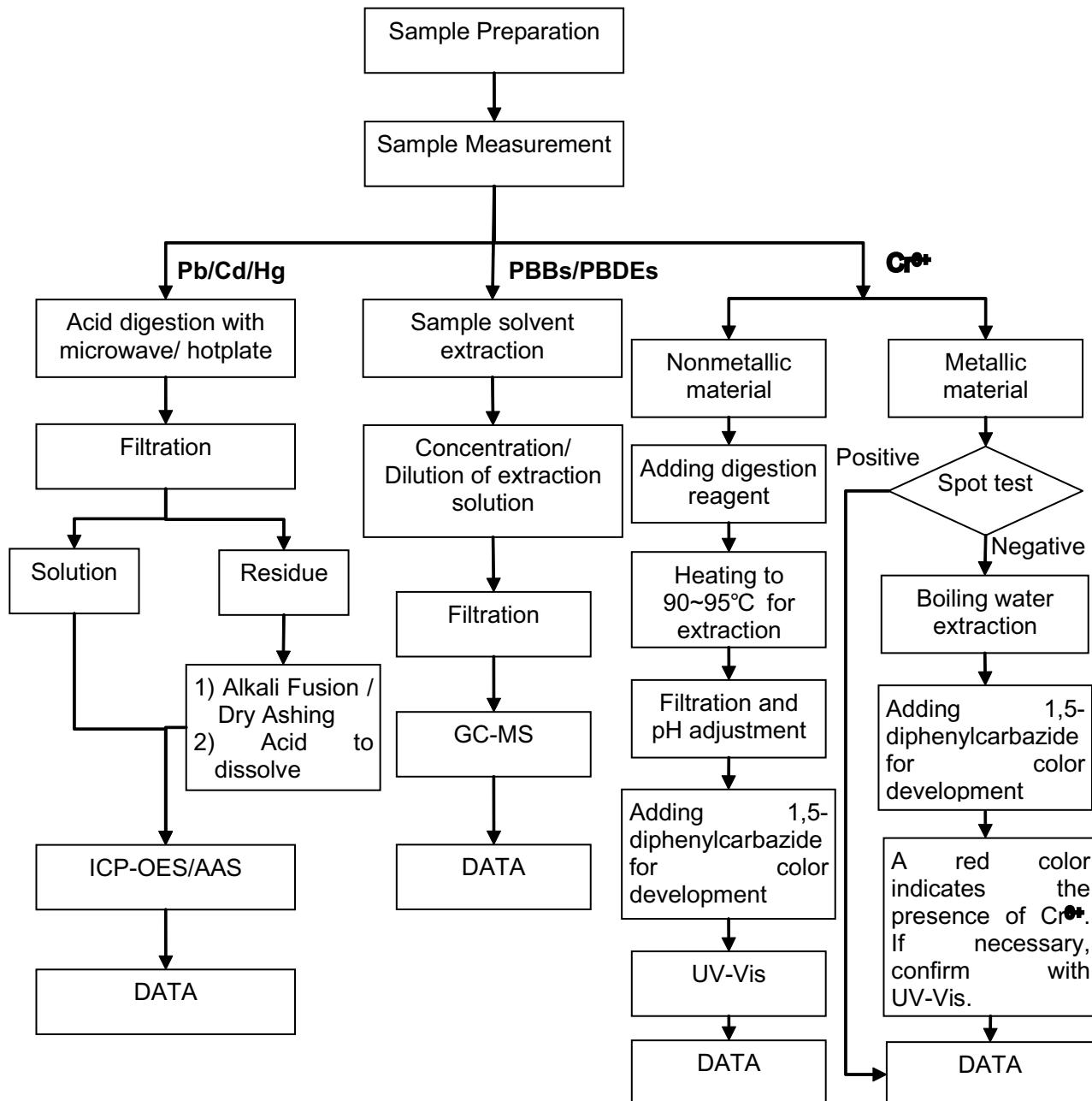
- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- ◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Sample photo:



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DONGGUAN HOQ ELECTRONIC SCIENCE AND TECHNOLOGY CO.,LTD.

NO.92,188 INDUSTRIAL ROAD,TANXIA TOWN,DONGGUAN CITY,GUANGDONG PROVINCE
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : SUS304

SGS Job No. : GC120421006 - GZ
Internal Reference No. : 3.2
Date of Sample Received : 18 Apr 2012
Testing Period : 18 Apr 2012 - 23 Apr 2012
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits in RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Annie Liang
Approved Signatory

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Test Results :

Test Part Description :

1 **CAN12-045298.002** **Silvery metal sheet**

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

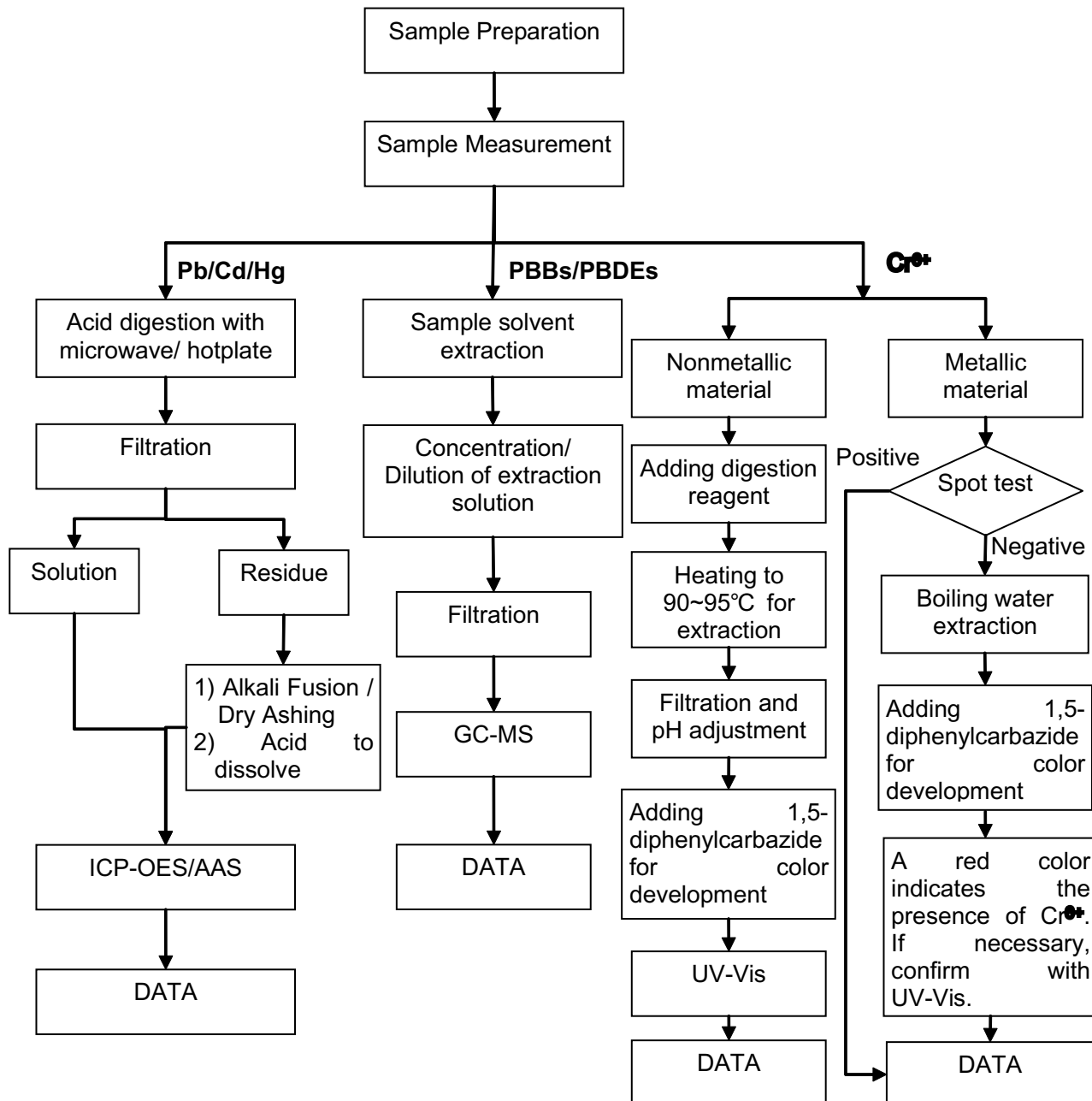
- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- ◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Sample photo:



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DONG GUAN YI HAI ELECTROPLATE CO., LTD

LU DONG MANAGEMENT DISTRICT, HU MEN TOWN, DONG GUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Tin

SGS Job No. : SZML120851095 - SZ

Internal Reference No. : 5.4

Date of Sample Received : 02 Aug 2012

Testing Period : 02 Aug 2012 - 07 Aug 2012

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on selected parts of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Almay Gao

Approved Signatory

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Test Results :

Test Part Description :

Spot-test

1

COO Number

CAN12-104846.004

Description

Silvery plating on metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method

- Test Method : (1) Determination of Cadmium, Lead and Mercury by ICP-OES after application of modified surface etching digestion based on IEC 62321:2008
(2) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis With reference to IEC 62321:2008.

Test Item(s)	Limit	Unit	MDL	004
Cadmium (Cd)	100	mg/kg	10	ND
Lead (Pb)	1,000	mg/kg	10	76
Mercury (Hg)	1,000	mg/kg	10	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

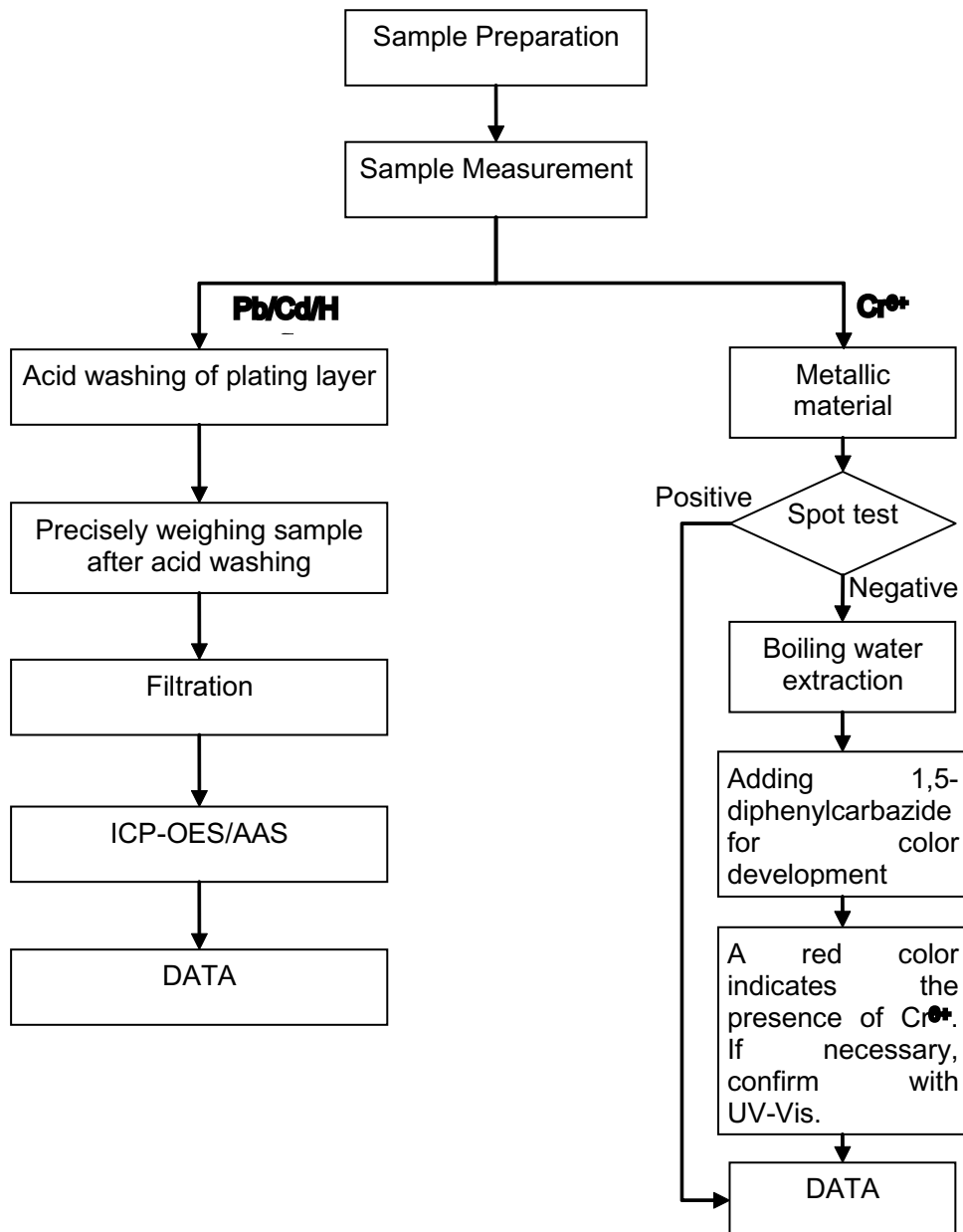
- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

Plating Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang
- 2) Name of the person in charge of testing: Adams Yu



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Sample photo:



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DONG GUAN YI HAI ELECTROPLATE CO., LTD

LU DONG MANAGEMENT DISTRICT, HU MEN TOWN, DONG GUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : Nickel

SGS Job No. : SZML120851095 - SZ

Internal Reference No. : 5.3

Date of Sample Received : 02 Aug 2012

Testing Period : 02 Aug 2012 - 07 Aug 2012

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on selected parts of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Almay Gao
Approved Signatory

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Test Results :

Test Part Description :

Spot-test **003** **003**
1 CAN12-104846.003 Silvery plating on metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method :

- (1) Determination of Cadmium, Lead and Mercury by ICP-OES after application of modified surface etching digestion based on IEC 62321:2008
- (2) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis With reference to IEC 62321:2008.

Test Item(s)	Limit	Unit	MDL	003
Cadmium (Cd)	100	mg/kg	10	ND
Lead (Pb)	1,000	mg/kg	10	ND
Mercury (Hg)	1,000	mg/kg	10	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

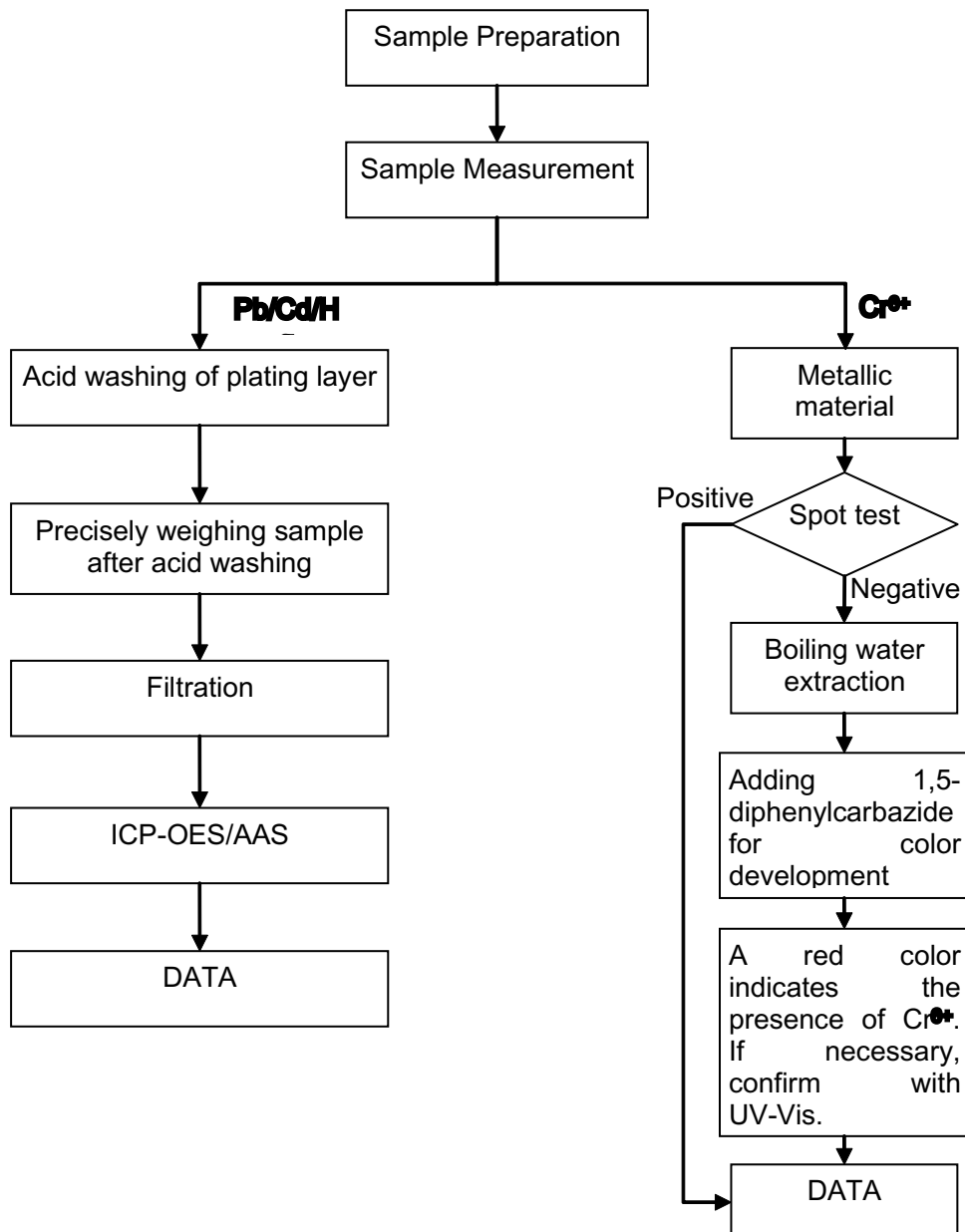
- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- ◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

Plating Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang
- 2) Name of the person in charge of testing: Adams Yu



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DONG GUAN YI HAI ELECTROPLATE CO., LTD

LU DONG MANAGEMENT DISTRICT, HU MEN TOWN, DONG GUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as : gold

SGS Job No. : SZML120851095 - SZ

Internal Reference No. : 5.2

Date of Sample Received : 02 Aug 2012

Testing Period : 02 Aug 2012 - 07 Aug 2012

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.



Almay Gao

Approved Signatory

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Test Results :

Test Part Description :

Order No.

1

Order Ref.

CAN12-104846.002

Description

Golden metal sheet

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Test Method

Test Method : With reference to IEC 62321:2008

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Spot test / Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	002
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	13
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	◇	Negative

Notes :

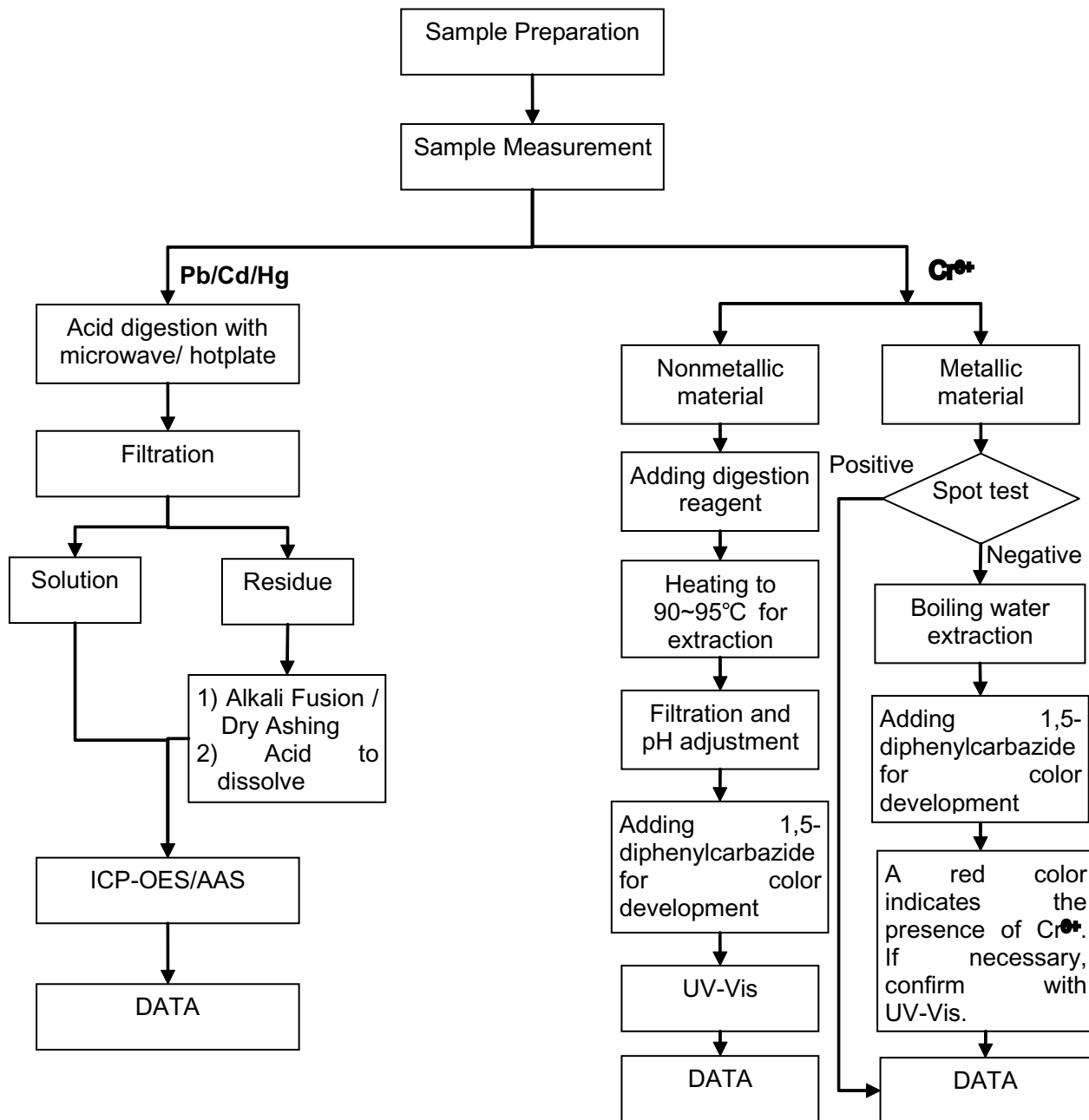
- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) ◇Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
- ◇Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ test method excluded).



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